

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An installation arrangement for an air-conditioning system with a heating apparatus having at least one housing ~~[[in]]~~ through which air is fed in an at least partially predefined flow ~~path~~ conduit, and which has at least one heating apparatus and at least one actuating device, with the heating apparatus being arranged in a first flow path and the actuating device being arranged at least partially in a second flow path, wherein in at least a first position the actuating device causes substantially all air in the flow ~~path~~ conduit to flow through the first flow path and the heating apparatus and in at least a second position, the actuating device permits air to flow through the second flow path without restricting airflow through said first flow path and wherein the heating apparatus includes a plurality of heat exchange plates and the actuating device comprises a closure flap having a comb structure that extends between the heat exchange plates when the actuating device is in the first position.

2. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the housing has at least one inlet and at least one outlet for the air.

3. (Currently amended) The installation arrangement for an air-conditioning

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

system with a heating apparatus as claimed in claim 1, wherein the heating apparatus is selected from a group of heating apparatuses which contains heat exchangers, CO₂ heat pumps, heaters which use exhaust gas heat, fuel heater, condensers, stationary-mode heaters, electric heaters, and PTC heaters ~~and the like~~.

4. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the heating apparatus has a core which conducts heat and whose heat exchanger surface is formed by baffle plates which are arranged at a predefined angle to the main direction of extent of the core, in a heat-conducting fashion on a surface of said core.

5. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 4, wherein at least part of the surface of the heat-conducting core has a flow of air around said heat conducting core.

6. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 5, wherein ~~the~~ a cross section of the heat-conducting core is such that the flow of the air at least along part of the surface of the heat-conducting core is essentially laminar.

7. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 4, wherein ~~the~~ a cross sectional shape of the heat-conducting core is asymmetrical.

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

8. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 4, wherein a cross section through which some of the air which flows through the heating apparatus flows is formed between the heat-conducting core and an element which adjoins the heating apparatus and at least partially bounds the first flow path.

9. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 4, wherein a third flow path through which a heating medium flows is arranged within the heat-conducting core.

10. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 9, wherein the heating medium is a fluid.

11. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 9, wherein the heating medium which flows through the heat-conducting core brings about a temperature gradient across the a cross section of the core.

12. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 4 wherein a temperature gradient of the heat-conducting core is at least partially parallel with a temperature gradient of

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

the air which flows through the heating apparatus.

13. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the heat exchanger includes a plurality of buffer plates ~~of the heat exchanger surface have~~ having a basic shape which is selected from a group ~~of shapes which contains~~ consisting of squares, rectangles, circles, ellipses, and polygons, ~~and combinations of the latter.~~

14. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the heating apparatus is arranged in a bypass duct.

15. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the heating apparatus is arranged at a predefined distance from the an external wall of the housing.

16. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the a heat exchanger surface of the heating apparatus assumes a predefined angle to the longitudinal axis of the a motor vehicle in which the heating apparatus is mounted.

17. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein ~~at least one fan, in~~

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

~~particular~~ an electric fan, which promotes the movement of air through the device within at least one flow ~~path~~ conduit is provided in the housing.

18. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the air is fed directly and/or indirectly into ~~the~~ a passenger compartment of a motor vehicle through the outlet.

19. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the actuating device can be moved into at least two positions.

20. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the actuating device is continuously adjustable, with the proportion of air which is fed through the heating apparatus and/or past the heating apparatus being changed and ~~in-particular~~ closed-loop and/or open-loop controlled depending on the position.

21. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein a second actuating device which essentially prevents a flow of air counter to the main direction of flow of the first flow path is arranged downstream of the heating apparatus in the first flow path.

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

22. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 21, wherein the second actuating device is embodied in such a way that it is at least partially opened by the air flowing through the heating apparatus in the main direction of flow.

23. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 21, wherein the second actuating device has a actuating element which at least partially counteracts an opening movement of the actuating device.

24. (Previously presented)The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the actuating devices are selected from a group of actuating devices which contains flaps, swinging flaps, segmented flaps, wing flaps, shutters, and iris shutters.

25. (Currently amended)The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein a device for filtering air, ~~in particular~~ in the region of the inlet is provided.

26. (Currently amended)The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein an closed-loop or open-loop control device which performs closed-loop or open-loop control on, ~~in particular,~~ the quantity of air flowing through is provided on the at least one inlet and/or outlet for

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

the air.

27. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the air is fed at least partially along a dividing wall adjoining an internal combustion engine, and in that at least one heating apparatus is arranged in particular in this region.

28. (Previously presented) The installation arrangement for an air-conditioning system with a heating apparatus as claimed in claim 1, wherein the device has at least one sensor which is selected from a group of sensors which determine the temperature, pressure, speed, or the position of a component.

29. (Currently amended) The installation arrangement for an air-conditioning system with a heating apparatus as claimed claim 1, wherein the individual elements and/or assemblies of the device are arranged basically one behind the other in the flow path conduit, in which case ~~in particular~~ at least one element and/or one assembly can be removed from the ~~main flow path of the air~~ flow conduit by means of a bypass.

Claims 30 and 31 (Cancelled).

32. (New) An installation arrangement for an air-conditioning system comprising:
at least one housing through which air is fed;
a first flow path in the housing;

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

a second flow path in the housing, the second flow path having a first opening at a first location along the first flow path and a second opening at a second location along the first flow path spaced from the first location, a central portion of the second flow path being located outside the first flow path;

a heating apparatus in the second flow path, the heating apparatus including first and second sets of heat exchange plates in the second flow path; and

an actuating device in the first flow path between the first location and the second location, the actuating device being shiftable between a first position permitting air flow through the first air flow path from the first location to the second location and a second position substantially blocking air flow through the first flow path from the first location to the second location such that air in the first flow path must traverse the second flow path to travel from the first location to the second location.

33. (New) The installation arrangement for an air-conditioning system as claimed in claim 32, wherein the first set of heat exchange plates is located in the second flow path at a location upstream of the second set of heat exchange plates such that air flowing through the second flow path from the first location to the second location passes through both the first set of heat exchange plates and the second set of heat exchange plates.

34. (New) The installation arrangement for an air-conditioning system as claimed in claim 33, wherein air flowing through the second flow path passes through the first set of heat exchange plates in a first direction and passes through the second set of

Serial No. 10/563,796
Reply to Office Action dated June 7, 2010

Docket No. 1006/0128PUS1

heat exchange plates in a second direction, different than the first direction.

35. (New) The installation arrangement for an air-conditioning system as claimed in claim 33, wherein air flowing through the second flow path passes through the first set of heat exchange plates in a first direction and then passes through the second set of heat exchange plates in a second direction, opposite to the first direction.

36. (New) The installation arrangement for an air-conditioning system as claimed in claim 33, wherein the heating apparatus includes a heat conducting core, the first and second sets of heat exchange plates extend in opposite directions from the heat conducting core, and wherein the heat conducting core partially defines the second flow path.